UNIVERSITY OF MYSORE.

Notification No. 20356, *dated the* 30*th March* 1933.

ABSTRACT PROCEEDINGS OF THE 76TH MEETING OF THE SENATE HELD AT THE UNIVERSITY UNION, MYSORE, ON THURSDAY THE 23RD AND FRIDAY THE 24TH MARCH 1933.

I. *Preliminary*.—Before proceeding to the business on the agenda, the Vice-Chancellor referred to the demise in December 1932 of Mr. B. Rangiengar, a donor to the University. The Vice-Chancellor next congratulated *Rajacharitavisharada* Mr. C. Hayavadana Rao on the title "*Rao Sahib*" conferred on him by the Government of India since the Senate last met.

II. *Questions*.—The following questions of which due notice had been given were answered:—

By Mr. G. R. Josyer,

Questions.	*Answers.*
Will the Vice-Chancellor be pleased to state:— 1. (*a*) Under what rule are propositions sent up for the Senate Agenda declared 'out of order'? (*b*) Under what rule are propositions left out even without being declared out of order? (*c*) Who is the authority doing so? (*d*) Is it in exercise of the reserve powers vested in the Vice-Chancellor? (*e*) Or is it the University Council exercising authority over the Senate?	The decision as to whether a proposition is in order or not is with the Vice-Chancellor in consultation with the University Council.
2. (*a*) What is the total number of seats in the Board of Sanskrit Studies? (*b*) How many of them are vacant? (*c*) Who is to fill up the vacancies? (*d*) Why have not the vacancies been filled up? (*e*) Are there no Sanskrit scholars available in the State?	A Board of Studies must consist of not fewer than three members and not more than eight. There are now five members on the Board of Studies in Sanskrit, that is to say, two more than the prescribed minimum number. The question of vacancy does not arise.
3. (*a*) Does the Faculty of Science elect new Deans in place of retiring ones by rotation from among its members? (*b*) Is the practice in accordance with rules?	The member's attention is invited to Ordinance 16.
4. (*a*) What are the publications in Kannada that are in the programme of the Kannada Publication Committee for the year? (*b*) How many of them have come out?	No new programme of work was laid down for the year 1932-33. Of the publications undertaken in the previous years (*vide* answer to Question No. 12 at the Session of the Senate held in March 1932), one, *viz.*, Kadambari (abridged), will be issued almost immediately and the following four will be ready for print during the current year 1932-33:— (1) Public Finance. (2) Life and Teachings of Sri Ramakrishna Paramahamsa. (3) Translation of Church's "Trial and Death of Socrates." (4) An abridged edition of Prabhulingalila.

Questions.

5. (a) Does the Hon. Professor of Kannada do any non-remunerative extra work for Kannada?
(b) What is the work for Kannada done by him during the year?
(c) In view of the Council's suggestion regarding the Senate's resolution about the Hon. Professorship of Philosophy, why should this particular Hon. Professorship be retained?
(d) Is it as a special honour to the present incumbent?

6. (a) What exactly is the scheme of the Kannada Dictionary?
(b) Is it from English to Kannada, Kannada to English or Kannada to Kannada?
(c) Who is to be the Chief Editor?
(d) Is he a Kannada Graduate?
(e) What is the remuneration to be paid to him in advance or otherwise?
(f) Has the Council sanctioned a sitting fee of Rs. 10 per day to the members, besides T. A. and daily allowances?
(g) Is the practice of paying sitting fees current in any other constituent body of the University?

Answers,

The Hon. Professor gives a course of lectures in Kannada Literature to the B.A. (Hons.) and the M.A. classes. The appointment was made in the interests of Kannada studies in the University.

(a), (b), (c), (e) and (f) Scheme for the Preparation of an English-Kannada Dictionary.

Direction.

There shall be an Editorial Committee consisting of—

(1) a Chairman who shall be the Chief Editor and executive officer in charge of the office and responsible for the progress of the work, an honorarium of Rs. 5,000 being paid to him in five equal yearly intalments, and

(2) five other members, three of whom shall represent the University, a sitting fee of Rs. 10 per meeting being paid to each member in addition to travelling allowance permissible under Government or University rules.

The Chief Editor shall be in charge of the preparation of the Dictionary with the help of the office staff and shall convene a meeting of the Committee once a month to review and pass the work prepared and submitted.

The personnel of the committee shall be as follows:—

Chairman and Chief Editor.

Mr. B. Venkatanarauappa, M.A.

Members.

Prof. B. M. Srikantia
Prof. T. S. Venkannaiya
Mr. A. R. Krishnasastry
Mr. C. K. Venkataramayya
Mr. D. V. Gundappa

Budget of Expenditu e.

		Rs.
(1) Honorarium to Chairman and Chief Editor ...		5,000
(2) Sitting fee for members at Rs. 10 per member per meeting ...		3,600
(3) Travelling allowance to members ...		2,000
(4) Office Staff:—		
Manager and Literary Assistant	75 p.m.	10,500
Second Literary Assistant	60 p.m.	
Clerk and typist	30 p.m.	
Peon	10 p.m.	
Total	175 p.m.	

(5) Books and Furniture ...	1,200
(6) Stationery and Contingencies ...	2,700
Total Rs.	25,000

The work shall be terminated in five years from the date of starting.

The recruitment to the staff shall be made according to the rules of the Central Recruitment Board, the posts being advertised as general vacancies and the qualifications being prescribed by the Editorial Committee.

(*d*) Yes.

(*g*) No.

7. (*a*) What is the work of the Oriental Library?
(*b*) Is any Kannada work done there?
(*c*) Has it a full complement of Kannada staff?

The member's attention is invited to para 1, page 198 of Vol. II of Calendar for 1931-32.

(*d*) If it has, why is a separate Kannada establishment being opened in Bangalore for the Dictionary?

The Dictionary is far too large an undertaking to be included in the work of the Oriental Library and needs the services of experienced persons with full knowledge both of Kannada and of English.

(*e*) Will it be located in the Kannada Sahitya Parishat premises?

Yes; the Parishat authorities have very generously given accommodation for the Dictionary Office in the Parishat premises and have allowed the use of the Parishat library also.

(*f*) Will rent be paid to Parishat?

No.

(*g*) Is the Parishat receiving a substantial Government grant also?

The University has no information.

III. *Reports.*—The following items were then reported to the Senate:—

(i) *The Kalavara Subbamma Midwifery Scholarship.*—The following condition relating to the Scholarship, referred by the Senate at its meeting held in November 1932 to the University Council for re-consideration on a question raised, of holding a special competitive examination for the purpose:—

"Another scholarship named 'The Kalavara Subbamma Midwifery Scholarship' in memory of the founder's mother and equivalent in value to the remaining third of the annual income shall be awarded to the student of the final year M.B.B.S. degree class, who shall have obtained the highest number of marks in Midwifery in the examinations held in the fourth year course. In the event of there being two or more candidates bracketed in the first place, the University Council shall have the discretionary power to award it to the most deserving of them."

ACTION THEREON.

Council's resolution, dated the 14th January 1933:—

Resolved that the scholarship be awarded on the results of the college examination in Midwifery held at the end of the fourth year, and that the conditions as amended be placed before the Senate at the next meeting with the concurrence of the College Council.

The condition as amended to read as under:—

Another scholarship named 'The Kalavara Subbamma Midwifery Scholarship' in memory of the founder's mother and equivalent in value to the remaining third of the annual income shall be awarded to the student of the final year M.B.B.S. degree class, who shall have obtained the highest number of marks in Midwifery in the college examination held at the end of the fourth year. In the event of there being two or more candidates getting an equal number of marks, the University Council shall have the discretionary power to award it to the most deserving of them.

(ii) *Honorary Professorships.*—The following proposition moved at the meeting of the Senate held in November 1932 and referred to the University Council for opinion:—

"That with a view to encouraging the study of Indian Philosophy in the University, the University Council be pleased to request Mr. M. Hiriyanna, M.A., L.T., retired Professor, and Mr. V. Subrahmanya Iyer, B.A., retired Registrar of the University, to accept honorary professorships in the University and to deliver a regular course of lectures on the subject."

Amendment proposed:—

Add 'and other subjects' *after* 'Indian Philosophy' in the first line and *insert* 'or other qualified persons either young or old' *after* 'retired Registrar of the University' in the third line.

The amended proposition will read as under:—

That with a view to encouraging the study of Indian Philosophy and other subjects in the University, the University Council be pleased to request Mr. M. Hiriyanna, M.A., L.T., retired Professor, and Mr. V. Subrahmanya Iyer, B.A., retired Registrar of the University, or other qualified persons either young or old, to accept honorary professorships in the University and to deliver a regular course of lectures on the subjects.

ACTION THEREON.

Council resolution, dated the 14*th January* 1933.

Resolved that the Council are of opinion that a system of special University lectures by distinguished scholars be instituted and necessary provision be made in the budget.

(iii) *Period Attendance.*—The following proposition moved at the meeting of the Senate held in November 1932 and referred to the University Council for consideration :—

That the Senate resolves that period attendances in all the colleges of the University be abolished and day attendances only be called for by the University for purposes of term certificates.

Amendments proposed:—

(i) In the first line, *add* 'and subject' *after* 'period'.

(ii) In the same line, *add* 'and institutions' *after* 'colleges'.

The proposition as amended will read as under :—

That the Senate resolves that period and subject attendances in all the colleges and institutions of the University be abolished and day attendances only be called for by the University for purposes of term certificates.

ACTION THEREON

Council Resolution, dated the 14*th January* 1933.

Resolved that the Council finds some difficulty in recommending the abolition of the requirement of minimum attendance in separate subjects, and that if this is to be retained, not much relief will be afforded to the management of colleges by abolishing period attendances. In the circumstances, the Council considers that the practice laid down in the present Ordinances should be followed, and that the college office staff should be strengthened; if necessary, to cope with the work of keeping and calculating attendances according to the rules.

(iv) *University Representation in the Representative Assembly*:—The following extract from G. O. No. RI. 2429-88/ R.A. 13-32-2, dated the 9th October 1932, passing orders on the recommendations of the Committee appointed to consider the question of the re-allocation of seats in the Representative Assembly and allied matters.

The recommendations of the Committee are briefly as follows:—

* * * *

3. Special interests. (*a*) The number of seats allotted to the University may be reduced from 2 to 1.

* * * *

II. SYSTEM OF ELECTION.

* * * *

2. Government are pleased to approve of the above recommendations of the Committee and direct that they be given effect to in the ensuing elections. The distribution of seats for the Rural and Urban constituencies and the special interests will be as in the schedules A, B and C respectively, appended to the report of the Committee.

(v) *Course of Studies in History for the B.A. (Pass) Degree Examination*:—

(*a*) *Resolution of the Board of Studies in History, dated 9th July* 1932:—

The three papers in History for the B.A. (Pass) to be as follows :—

(i) History of India (Political and Cultural).

(ii) Europe after 1600 A.D.

(iii) Outlines of English Constitutional History *or* Indian Political Institutions (from the earliest ages to British Times.)

(*b*) *Council resolution, dated the* 20*th August* 1932:—

Resolved that this be referred back to the Board for adoption as under:—

(i) History of India (Political and Cultural.)

(ii) Europe after 1600 A.D.

(iii) Outlines of English Constitutional History.

(c) *Resolution of the Board of Studies in History, dated the 12th February* 1933 :—

Resolution: In the course of studies for the B.A. (Pass), the paper on 'The History of Indian Political Institutions from the earliest times' should be continued as an alternative to the paper on English Constitutional History.

This would entail no additional expenses, as a paper on the same subject and of the same standard has to be set for the Honours course (minor subject), and it has been taken actually by some students now in the Honours classes.

(d) *Council resolution, dated the 25th February* 1933 :—

Resolved that the resolution of the Board of Studies be reported to the Senate.

IV. *Propositions* :—The following propositions were then considered and disposed of as noted :—

Proposition 1.—That the Budget estimates of Receipts and Expenditure of the University for 1933-34 as framed by the University Council be approved.

Resolved that the Budget estimates already circulated embodying the corrections announced at the meeting be approved **(Budget as passed is given in Appendix A.)**

Proposition 2.—That the following condition relating to the Kalavara Subbamma Midwifery Scholarship, referred by the Senate at its meeting held in November 1932 to the University Council for re-consideration on a question raised, of holding a special competitive examination for the purpose, and as amended by the University Council at the meeting held on the 14th January 1933, be approved.—

Condition II.—Another scholarship named 'The Kalavara Subbamma Midwifery Scholarship' in memory of the founder's mother and equivalent in value to the remaining third of the annual income shall be awarded to the student of the final year M. B. B. S. degree class, who shall have obtained the highest number of marks in Midwifery in the college examination held at the end of the fourth year. In the event of there being two or more candidates getting an equal number of marks, the University Council shall have the discretionary power to award it to the most deserving of them.

Resolution :—**Carried.**

Proposition 3. (a) That in respect of the examination in Practice in Teaching for the B.T. Degree Examination, credit be given for practical work done during the year to the extent of 30 per cent of the total marks assigned for Practice in Teaching

(b) That, in consequence, Ordinance 62 A (pages 31-32 of Vol. I of Calendar for 1930-31) as amended at the Senate Meeting of November 1932 be further amended by substituting the following for the existing under Group B :—

		Marks
Group B.—Practice in Teaching—		
Examination	... .	140
Classwork	... ...	60
	Total ...	200

The portion of the Ordinance as amended to read as under :—

"62 A. There shall be a course of study for the degree of B. T. extending over one year. It shall comprise :—

Group A.	Theoretical	600 Marks
	(i) Principles	100 Marks each
	(ii) Educational Psychology	
	(iii) Methods	
	(iv) Comparative study of educational systems with special reference to problems of Indian Education.	
	(v) Class Room Technique and School Organisation ...	
	(vi) Mental and Educational Measurements—	
	(a) Theory—one paper of two hours ...	60 Marks
	(b) Practical examination including record of class work and *Viva Voce* ...	40 Marks
Group B :	Practice in Teaching—	200 Marks
	Examination	140 Marks
	Class work	60 Marks

Resolution.—**Carried.**

Proposition 4.—That Ordinance 62 A (pages 31 and 32 of Vol. I of Calendar for 1930-31) be amended as under :—

Add the following at the end of the last para : 'and the rest in the third class in the alphabetical order.'

The portion of the Ordinance as amended at the Senate meeting of November 1932 *with the above amendment to read as under.*

Ordinance 62 *A* : x x x

x x x

Candidates for the B. T. degree examination who have passed in Group A (theoretical) and failed in B (Practice in Teaching) shall be permitted to appear for B (Practice in Teaching) only and the examination fee for the same shall be rupees fifteen.

To pass the B. T. degree examination, a candidate must obtain not less than 40 per cent of the total marks under A and B separately with a minimum of 30 per cent in each paper. Of the passed candidates, those that obtain 60 per cent or more of the total marks shall be placed in order of merit in the first class, those obtaining 50 per cent or more but less than 60 per cent in the second class likewise in order of merit and the rest in the third class in alphabetical order.

Resolution.—**Carried.**

Proposition 5.—That the following amendment to Ordinance 90 A (2) (page 13 of the Supplement to Vol. I of Calendar for 1930-31) accepted by the University Council at the meeting held on the 10th December 1932, be approved :—

Under 'Clinical Dental Surgery' *Fifth Year* (page 13 of the Supplement), *for* 'one course of three months,' *substitute* 'one course of twelve lectures with necessary demonstrations.

The Ordinance as amended to read as under :—

x x x x
x x x x
x x x x

Clinical Dental Surgery.—One course of twelve lectures with necessary demonstrations.

x x x x

Resolution.—**Carried.**

Proposition 6.—That the following course of study and scheme of examination in Hindi for the Intermediate and the B.A. Degree examinations, accepted by the University Council at the meeting held on the 10th December 1932, be approved.

I. A. (OPTIONAL SUBJECT).

There will be two papers. The first paper will be set on the prescribed text-books; the second paper on translation from Hindi into English and *vice versa*. Each paper will be of 3 hours' duration and will carry 100 marks.

B. A. (OPTIONAL SUBJECT).

There will be three papers. The first paper will be set on the prescribed text-books: prose, poetry and grammar; the second paper on History of Literature and Language and Rhetoric, Prosody; the third paper on translation from Hindi into English and *vice versa*. Each paper will be of 3 hours' duration and will carry 150 marks.

Resolution.—**Carried.**

Proposition 7.—That the following amendments of Ordinances 25 and 28 (pages 20 and 21 of Vol. I of Calendar for 1930-31) accepted by the University Council at the meeting held on the 14th January 1933, be approved [*Vide* item V—15 and 19 in the abstract proceedings of the Senate Meeting of November 1932] :—

(*a*) *Ordinance* 25: *Substitute* the following for the existing :—

A Board of Audit consisting of three Fellows, not being members of the Council, shall be appointed by the Senate at the first ordinary meeting after each reconstitution of the Senate. The members of the Board shall hold office until the next reconstitution of the Board: except that, in the event of a member being appointed a member of the University Council, he shall relinquish his membership of the Board. Casual vacancies in the Board shall be filled up by the Council.

(*b*) *Ordinance* 28: *Delete.*

The following amendments moved were lost :—

(i) *Substitute* the words 'at the next session of the Senate' in place of the last three words 'by the Council' in Ordinance 25 proposed.

(ii) *Add* the following sentence at the end of the proposed Ordinance 25 :—

'The member or members thus appointed by the Council shall hold office until the next meeting of the Senate when the Senate shall proceed to fill the vacancy or vacancies.'

Resolution.—**The original proposition was carried.**

Proposition 8.—(i) That the Bachelor's Degree Examinations be named respectively, B.A., B.Sc., B.A., (Hons.) and B.Sc. (Hons.), instead of B.A. (Pass), B.Sc. (Pass), B.A. (Hons.) and B.Sc. (Hons.)

(ii) That Ordinances 59, 61, 63, 64, 78, 79, 96 and 98 be amended accordingly.

Resolution.—**Carried.**

Proposition 9.—That the following scale of tuition and examination fees for the Intermediate Examinations under the compartmental system, accepted by the University Council at the meeting held on the 14th January 1933, be approved :—

I. TUITION FEES.

	Rs. per year
Intermediate in Arts (whole)	72 plus 8 *
Part I	32
Part II	44 plus 8 *
Intermediate in Science (whole)	88
Part I	32
Part II	60

* For Science subjects.

II. EXAMINATION FEES.

	Rs.
Intermediate in Arts (whole examination)	30
Part I	14
Part II	21
Intermediate in Science (General) (whole examination)	30
Part I	14
Part II	21

Resolution.—**Carried.**

Proposition 10.—That Ordinance 78 (page 9 of the Supplement to Vol. 1 of Calendar for 1930-31) be amended as under :—

Change '(iii) pass in item (2) *into* '(iii) third class.'

The portion of the Ordinance as amended to read as under :—

Ordinance 78 :

(2) The results of the B.A. (Pass) and the B.Sc. (Pass) Degree Examinations shall be published in three classes as follows :—

(i) First class	60 per cent in each compartment.
(ii) Second class	50 Do
(iii) Third class—	
Compulsory English	35 per cent
Compulsory Second Language	35 per cent
Optional Subjects	35 per cent in each group and 40 per cent on the aggregate.

x x x

Resolution.—**Carried.**

Proposition 11.—That Ordinance 87 (page 50 of Vol. I of Calendar for 1930-31) be amended as under :—

For the words 'the names of the other successful candidates shall be published in alphabetical order' (occurring in lines 12 and 13 of the Ordinance), *substitute* the following :—

'the other successful candidates shall be placed in the second class and their names shall be published in alphabetical order.'

The Ordinance as amended to read as under :—

87. Candidates shall be required to pass three examinations, namely, the First Examination in Engineering at the end of the first year, the Second Examination in Engineering at the end of the third year and the Final Examination in Engineering at the end of the fourth year. The minimum for a pass in each of these examinations shall be 40 per cent of the marks in each group of subjects and 50 per cent of the total marks, provided a minimum of 30 per cent is obtained in each paper of the written examination and in each oral or practical examination. Successful candidates who obtain not less that 70 per cent of the total marks shall be placed in the first class and their names shall be published in the order of merit, the other successful candidates shall be placed in the second class and their names shall be published in alphabetical order.

Resolution.—**Carried.**

Proposition 12.—That Ordinance 90 A (7) (c) (page 17 of the Supplement to Vol. I of Calendar for 1930-31) be amended as under :—

Substitute the following for the last sentence in (c):—

"Of those who pass, those who obtain not less than 70 per cent of the total marks shall be placed in the first class in order of merit and the rest in the second class in alphabetical order."

Ordinance 90 *A* 7 (*c*) *as amended to read as under* :—

No candidate shall be declared to have passed the examination unless he obtains not less than 50 per cent in each subject. Of those who pass, those who obtain not less than 70 per cent of the total marks shall be placed in the first class in order of merit and the rest in the second class in alphabetical order.

Resolution.—**Carried.**

Proposition 13.—That Ordinance 90 B (page 21 of the Supplement to Vol. I of Calendar for 1930-31) be amended as under :—

Substitute the following for Note 2 on page 21:—

'Of those who pass, those who obtain not less than 70 per cent of the total marks shall be placed in the first class in order of merit, and the rest in the second class in alphabetical order.'

Resolution.—**Carried.**

Proposition 14.—That the detailed courses of study, etc., for the examinations for the Master's Degrees under the new rules, as in Appendix B, accepted by the University Council at the meeting held on the 11th February 1933 be approved.

Amendment.—That the list of subjects detailed in respect of the optional papers in Mathematics be referred back to the Board of Studies in Mathematics.

Carried.

Resolution.—**Proposition as amended was carried.**

Proposition 15.—That the following transitional Ordinances consequent upon the abolition of the special I.Sc. courses leading to Medicine and to Engineering be approved :—

(*a*) Candidates not successful at the I.Sc. (Medicine) Examination of 1933 or any preceding year shall be permitted without further attendance to appear for the I.Sc. Examinations of any subsequent year up to and including 1935 taking the following papers :—

English (Composition and Texts for Non-detailed study)	1 paper
Compulsory Mathematics	1 „
Physics	2 papers
Chemistry	2 „
Botany	2 „
Zoology	2 „

The minimum for a pass shall be 40 per cent in English, 35 per cent in Compulsory Mathematics and 30 per cent in each of the other subjects and 35 per cent in the group consisting of Physics, Chemistry, Botany and Zoology.

(*b*) Candidates not successful at the I.Sc. (Engineering) Examination of 1933 or any preceding year shall be permitted without further attendance to appear for the I.Sc. Examinations of any subsequent year up to and including 1935 taking the following papers :—

English (Composition and Texts for Non-detailed study)	1 paper
Second Language	„
Mathematics	2 papers (of Intermediate in Arts).
Physics	2 papers
Chemistry	2 „
Geology	2 „

The minimum for a pass shall be 40 per cent in English, 35 per cent in the Second Language, 35 per cent in Mathematics, 30 per cent in each of the other subjects and 35 per cent in the group consisting of Mathematics, Physics, Chemistry and Geology.

Resolution.—**Carried.**

Proposition 16.—That the following revised course of studies in Economics for the B.A. Honours Degree examination in Economics, proposed by the Board of Studies in Economics at the meeting held on the 13th February 1933 in order to effect uniformity as compared with the courses of studies in other Arts subjects and accepted by the University Council at the meeting held on the 25th February 1933, be approved :—

A. Major Subject :—

1. Essay.
2. Economic Principles.
3. Money, Credit and Prices.
4. Structure and Problems of Modern Industry.
5. Public Finance.
6. Rural Economics and Co-operation.
7. Economic History.
8. A special subject.

B. Minor:—

One of the B.A. groups (three papers each) and Statistics one paper [same as for B.A. (Pass)].

Four papers in all.

Resolution.—**Carried.**

Proposition 17.—(*a*) That the Senate is of opinion that it is desirable to have a first grade residential college for women with provision of quarters for a due proportion of the teaching staff.

(*b*) That the Senate is of opinion that such a college can most advantageously be located in Bangalore, and that the Maharani's College for Women at Mysore be therefore transferred to Bangalore and the Women's Intermediate College absorbed in it.

Resolution:—**The proposition was put to vote in parts and both the parts were carried.**

Proposition 18.—That the course of studies and scheme of examination for the Intermediate Examination be revised as under, in view of the enclosed proposals (*vide* Appendix C) of the Boards of Studies and the opinions thereon furnished by the Faculty of Arts, the Faculty of Science and the joint meeting of the Faculties of Arts and Science:—

ENGLISH:

Three papers of three hours each.

(i) Poetry and Drama	70 Marks
(ii) Prose—detailed and non-detailed	70 „
(iii) General English	60 „

(The course in General English to be defined by the Board of Studies.)

SECOND LANGUAGES:

Two papers of three hours each carrying 100 marks.

(1) Composition and prescribed texts for non-detailed study
Or
Translation and common texts (in the case of classical languages) } Common to I.A. and I.Sc.

(2) Texts for detailed study and grammar.

HISTORY:

Outlines of World History: Two papers of three hours each carrying 100 marks.

(Detailed syllabus to be furnished by the Board of Studies.)

LOGIC:

Logic including Elementary Psychology of Reasoning Processes.

1. The definition of Logic. The problem, aim and scope of Logic. The relation of Logic to Psychology, Thought and Language. The division of Logic into Formal and Material.

2. Elementary Psychology of Reasoning Processes.—

(i) The Chief Cognitive and Accessory Processes.

(ii) The Sensory Basis of Knowledge.

(iii) The Formation of Concepts.

(iv) Analysis of processes involved in Judgments and Inferences.

(v) Meaning and its relation to Action and Language.

(vi) Unconscious Elements in Reasoning; Prejudice, Sentiment, Intuition.

(vii) Thought and its relation to Conative-Affective Processes: Curiosity, Doubt, Belief, etc.

3. Deductive Logic.—

(i) Classification of terms. Denotation and Connotation, Predicables, Definition, Division, Classification, Description.

(ii) Nominalism, Conceptualism, Realism.

(iii) Judgments or Propositions: Categorical, Hypothetical, Disjunctive. Logical forms of Propositions. Import of Propositions, Opposition of Propositions, Conversion, Obversion, Contraposition, Inversion, Modality.

(iv) Inferences: Immediate and Mediate: Deductive and Inductive.

4. Inductive Logic.—

(i) Induction. Nature and Pre-suppositions of Inductive Reasoning. The relation of Induction to Deduction.

(ii) Meaning and Implications of the Principles of Causality and the Uniformity of Nature. Proof and Discovery.

(iii) Observation and Experiment. Methods of Induction. Value of Negative Instances.

(iv) Generalisation. Hypothesis. Explanation. Classification.

(v) Fallacies pertaining to Induction.

(vi) Chance and Probability. Statistical Method.

5. Deductive Logic.—

(i) Syllogism: Nature, Method and Rules of Syllogistic Reasoning. Moods and Figures.

(ii) Enthymemes and Sorites.

(iii) Direct and Indirect Reduction of Arguments.

(iv) Dilemma.

(v) Fallacies pertaining to Deduction.

6. Scientific Bearings of Thought.—

(i) Laws of Thought.

(ii) Aims and Ideals of Science. The Scientific Attitude of Mind.

(iii) Limitations of Science.

(iv) Method of Social Science.

NOTE.—Topics 1 to 4 should be covered in the Junior Intermediate class, and topics 5 and 6 in the Senior Intermediate class.

MATHEMATICS:

I.A.—Two papers as at present [pages 135-138 of Vol. I of Calendar for 1930-31].

I.Sc. (Mathematics)—Students taking Mathematics as an Optional subject shall take, in addition to the two papers of the I.A., a third paper of three hours carrying 100 marks on a syllabus to be furnished by the Board of Studies in Mathematics.

I. Sc. (Non-Mathematics)—Students not taking Mathematics as an Optional subject shall have a paper of three hours, carrying 100 marks on Elementary Mathematics.

(The syllabus in Elementary Mathematics to be furnished by the Board of Studies.)

PHYSICS:

Add 'Electrolysis and Faraday's Laws of Electrolysis' to the syllabus on page 141 of Vol. I of Calendar for 1930-31.

CHEMISTRY:

(*a*) *Substitute* the following for the syllabus on pages 142-143 of Vol. I of Calendar for 1930-31. The subject is to be studied in the order indicated:—

Air, Boyle's Law, Charles' Law.

Hydrogen, oxygen, water. Laws of chemical combination. Gay Lussac's Law of combining volumes.

Atoms and Molecules. Avagadro's hypothesis.

Symbols and formulæ, valency, radicles. Chemical equations and calculations.

Hydrogen peroxide and ozone.

Halogens and their hydracids. Electrolysis, sodium hypochlorite, potassium chlorate.

Elementary knowledge of oxidation and reduction.

Sulphur.—Rhombic and monoclinic varieties. Effect of heat on sulphur, sulphuretted hydrogen, sulphur dioxide, sulphur trioxide, sulphuryl chloride, sulphurous and suulphuric acids, sodium thiosulphate.

Solubility of solids and gases in water. Solubility curves. Henry's Law of gas solubility.

Nitrogen, magnesium nitride, ammonia, oxides of nitrogen, nitrosyl chloride, nitrous and nitric acids.

Endothermic and exothermic compounds. Thermal dissociation. Reversible reactions.

Phosphorus.—Red and white varieties, phosphine, oxides of phosphorus, chlorides of phosphorus, phosphorus oxy-chloride, phosphorus and phosphoric acids, structural formulæ.

Neutralisation. Equivalent weight of acids, bases and salts. Normal solutions. Acid, basic and normal salts. Water of crystallization.

Boron.—Boric acid, borax.

Silicon.—Silica, silicon tetrafluoride, sodium silicate, glass.

Carbon.—Allotropy, elementary knowledge of the distillation of wood and coal, methane, ethane, acetylene, carbon monoxide and dioxide, carbon di-sulphide, carbon tetrachloride, calcium carbide, cyanogen, hydrocyanic acid, potassium cyanide, ferrocyanide and ferricyanide. Double salts and complex salts.

Combustion, elements of gas analysis.

General methods of determining equivalent weights, atomic weights and molecular weights.

Chief sources, preparation, properties, and uses of the following metals:—

Sodium, potassium, copper, silver, gold, magnesium, calcium, strontium, barium, zinc, mercury, aluminium, tin, lead, arsenic, chromium, manganese and iron.

The preparation and properties of the more important compounds of the above metals.

Elementary knowledge of the periodic classification of elements.

Students are expected to have a knowledge of the process of manufacture of the following:—

Hydrochloric, nitric and sulphuric acids. Aluminium, gold, iron, lead, zinc, sodium hydroxide, sodium carbonate.

Practical—Cutting, bending and drawing out glass tubing.

Preparation and study of the properties of hydrogen, oxygen, chlorine, hydrogen chloride, ammonia, nitrous and nitric oxides, nitric acid, sulphur dioxide, boric acid, alum, and ferrous ammonium sulphate. Composition by volume of air, ammonia and sulphur dioxide.

Density of corbon dioxide.

Solubility of solids in water. Solubility curves.

Equivalent weight of a metal (magnesium, iron, lead, or aluminium).

Acidimetry and alkalimetry—estimation of acids, sodium hydroxide, sodium carbonate.

Simple exercises on the use of permanganate, thiosulphate and iodine standard solutions. Volumetric analysis.

Qualitative analysis of simple salts.

NOTE.—The course in practical work should closely follow the study of the theoretical portions in the lecture classes.

(*b*) *The examination shall comprise two papers of* 3 *hours each carrying* 100 *marks.*

Botany, Zoology, Geology } *No change.*

Amendments proposed.

(i) UNDER HISTORY—

Instead of "Outlines of World History.....Board of Studies" *read*:—

Group I, 2 papers	(1) History of Greece and of Rome	100 marks.
	(2) British History after 1485	100 marks.
Group II, 2 papers	(1) History of India ...	100 marks.
	(2) Outlines of World History	100 marks.

(ii) UNDER HISTORY, at the end, *add* the words:—

"Students who take both the History groups for the Intermediate course may be permitted to offer Economics as an alternative to Logic."

Resolved as follows:—

English.—**Proposition carried.**

Second Languages.—**Proposition carried with the observation that the Boards of Studies in the several languages be requested to revise the courses of studies for the I.A. and the I.Sc. in their respective languages so as to bring them in conformity with this resolution.**

History.—Resolved (i) **that History form only one out of the three optional subjects of study prescribed for the Intermediate Course in Arts, having two papers in the Intermediate Examination in Arts.**

(ii) **that the proposition be referred back to the Board of Studies for framing a course of studies in History for the Intermediate Examination in Arts in conformity with the preceding resolution (i).**

Logic, *Mathematics*, *Physics*, *Chemistry*, *Botany*, *Zoology*, *Geology* } **Proposition carried**

Proposition 19.—That the following modification in the scheme of examination for the Second Examination in Engineering in respect of Civil Engineering—Group III—10, Building Drawing (page 326 of Vol. I of Calendar for 1930-31) recommended by the Board of Studies in Engineering and Technology and accepted by the University Council at the meeting held on the 11th March 1933 be approved:—

For 3 hours, *substitute* 4 hours.

Resolution.—**Carried.**

Proposition 20:—That Ordinance 62A (pages 31-32 of Vol. I of Calendar for 1930-31) as amended at the Senate Meeting of November 1932, be further amended by the substitution of the following under "Group A—Theoretical"—for the existing:—

Group A—Theoretical	800	Marks.
(i) Principles	150	"
(ii) Educational Psychology including Mental Measurements...	200	"
(*a*) Written paper	150	"
(*b*) Practical Examination and *viva voce* ...	50	"
(iii) Methods	150	"
(iv) Comparative study of educational systems with special reference to problems of Indian Education	150	"
(v) Class room technique and school organization ...	150	"

Resolution.—**Carried.**

Proposition 21.—That the following be substituted for clause 4 of Ordinance 61 revised as in the notification of the University of Mysore No. 242, dated the 4th July 1932.—

4. *Scheme of Examination.*—The examination for the Degree of Master of Arts shall consist of four papers and a *viva voce* examination, or a thesis and a *viva voce* examination; and the examination for the Degree of Master of Science shall consist of four papers and a *viva voce* examination, or two papers, a thesis and a *viva voce* examination. In the conduct of the examination for the Master's Degree, at least one external examiner shall be associated with the professors of the subject in the University.

The written papers and the *viva voce* shall carry a maximum of 100 marks each and the thesis shall carry a maximum of 400 marks in the case of the examination for the Master's Degree in Arts and 200 marks in the case of the examination for the Master's Degree in Science.

The minimum for a pass in the Master's Degree examination shall be 50 per cent of the aggregate marks in the subject.

The Ordinance as thus amended is given in Appendix **D**.

Resolution.—**Carried.**

Proposition 22.—That the scheme of examination for the First Examination in Engineering (page 325 of Calendar for 1930-31, Vol. I) be amended by the substitution of the following for the existing, under Group II, and in respect of Grand Total:—

GROUP II

Serial No.	Subjects	No. of papers	Hours for each paper	Marks for written Examn.	Oral and Practical	Marks for records of class work	Total
3	Engineering Physics ...	1	2	60	30	30	120
4	Do Chemistry ...	1	2	60	30	30	120
5	Economics ...	1	2	50	...	10	60
	Total ...	...	...	170	60	70	300
	Grand Total ...	...	...	920	260	420	1,600

The complete scheme is given in Appendix **E**.

Resolution.—**Carried.**

Proposition 23.—That the order in which the first fifteen propositions by members are to be considered at a meeting of the Senate shall be determined by ballot.

Resolution.—**Pass on to the next item on the agenda.**

Conclusion.—The Vice-Chancellor bade farewell to the members, this being the last meeting of the Senate as at present constituted and thanked the members particularly non-officials, for their co-operation.

Representative members of the Senate complimented the Vice-Chancellor on his conduct of the business of the Senate, thanked him for his courtesy and referring to his absence on leave in continuation of the vacation, wished him *bon* voyage and safe return.

E. P. METCALFE,
Vice-Chancellor and Chairman.

APPENDIX A.

Abstract Statement of the Budget Estimates of Receipts and Expenditure for the year 1933-34 as passed by the University Council on 11-3-1933.

Sl. No.	Budget Heads	1932-33 Budget	1932-33 Actuals for Six months (Provnl).	1932-33 Revised estimates	1933-34 Proposed estimates	1931-32 Accounts
	RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.
1	Grant from Government ..	9,50,000	4,75,002	9,50,000	9,65,380	9,50,000
2	Tuition and admission fees ...	1,55,000	1,14,120	1,60,000	1,60,000	1,67,790
3	Medical Inspection fees ...	1,400	1,412	1,412	1,400	1,414
4	Examination fees ...	75,000	66,085	72,000	70,000	78,732
5	Fees for registration of graduates.	100	25	50	50	95
6	Interest on Endowment Funds	18,800	9,556	19,000	19,130	15,379
7	Other miscellaneous receipts—					
	(a) Sale Proceeds of Publications :—					
	(i) Calendar ...	50	10	10	25	61
	(ii) Prabuddhakarnataka	...	1,813	1,813	1,900	5
	(iii) Half-Yearly Journal ..	15	...	...	..	18
	(iv) Oriental Library Publications.	1,700	919	1,600	1,500	1,541
	(b) Receipts of the Archæological Department	200	90	130	200	133
	(c) Fees for marks, etc. ...	2,500	2,640	3,000	2,800	4,739
	(d) Rent on account of Professors' quarters.	3,850	1,887	4,100	4,100	4,108
	Total ...	12,08,615	6,73,559	12,13,115	12,26,485	12,24,015
	Deduct refunds ...	15,406	4,454	17,715	12,000	9,084
	Net Total ...	11,93,209	6,69,105	11,95,400	12,14,485	12,14,931
	Opening balance ...	60,184	1,52,382	1,52,382	72,568	1,12,707
	Grand Total ...	12,53,393	8,21,487	13,47,782	12,87,053	13,27,638
	EXPENDITURE.					
1	Salaries of Gazetted Officers and Teaching staff ...	6,43,177 —48,647	2,93,991 ..	5,99,075 ...	6,61,521 —50,023	6,17,235 ...
2	Establishment ..	1,23,976 —3,482	59,198 ...	1,20,609 ...	1,23,782 —3,650	1,20,828 ...
3	Travelling allowance ...	19,000	6,588	18,250	19,350	14,914
4	Contingency ...	12,140	4,304	11,735	11,680	10,441
5	Furniture ...	9,520	1,022	9,160	8,975	4,799
6	Clothing to menials ...	2,310	234	1,980	2,265	1,150
7	Printing charges ...	12,965	5,133	14,700	14,800	6,718
8	Stationery ..	4,180	1,067	4,140	4,510	3,562
9	Miscellaneous ...	1,750	626	1,600	2,200	1,456
10	Convocation ...	2,000	909	1,500	2,000	1,039
11	General Scholarships including Physical Science Prize	13,720	7,093	13,570	13,720	13,965
12	Scholarships for women ...	6,000	3,662	6,000	6,000	6,102
13	Scholarships for courses of studies outside the State.	2,880	585	1,880	..	4,723
14	Endowment Scholarships, Medals and Prizes.	18,800	8,945	18,800	19,130	15,379
15	Special Scholarships ...	2,500	1,619	2,500	2,500	1,924
16	Research Scholarships ...	3,600	1,335	3,200	6,480	3,251
17	Backward Class Scholarships	21,250	10,318	19,000	21,250	19,109
18	Depressed Class Scholarships	4,000	3,430	6,400	4,000	5,624
19	Scholarships for the Education of Military ceasses.	2,000	1,130	2,000	2,000	1,882

Abstract Statement of the Budget Estimates of Receipts and Expenditure for the year 1933-34.—*concld.*

Serial No.	Budget Heads	1932-33			1933-34	1931-32
		Budget	Actuals for Six months (Provnl.)	Revised estimates	Proposed estimates	Accounts
1	2	3	4	5	6	7
		Rs.	Rs.	Rs.	Rs.	Rs.
20	Extension work and External lectures.	2,000	247	2,150	1,000	90
21	University Calendar ...	3,000	842	2,800	3,500	2,440
22	Prabuddhakarnataka ...	...	1,086	2,000	1,900	..
23	University Journal ...	1,500	761	1,500	1,500	1,057
24	Kannada Publications ...	5,000	...	2,500	7,500	1,868
25	Other Publications ..	1,500	124	1,200	1,500	400
26	English-Kannada Dictionary..	...	..	5,000	5,000	..
27	University Examinations ..	78,000	3,439	79,500	80,000	77,990
28	University Unions ...	1,200	523	1,200	1,000	1,102
29	Construction and repairs ...	33,000	6,188	58,000	43,000	58,942
30	Grant and deputation charges for Arts and Science Congresses, etc.	4,125	1,250	4,500	1,500	3,825
31	Municipal Tax on University Buildings.	1,000	...	1,000	1,000	953
32	Contribution for Audit by the L.A.D. Staff.	1,650	...	1,650	3,250	1,405
33	Medical Inspection of Students	2,000	90	2,000	2,000	1,201
34	Ethnographical Survey ...	7,500	802	9,050	..	2,090
35	Study leave to officers ...	...	..	500	..	1,245
36	Library	30,550	6,261	31,450	29,645	18,017
37	Excursion charges ...	4,400	228	4,600	4,400	3,782
38	Laboratory and equipment ...	1,16,625	14,965	1,27,600	1,15,150	91,296
39	Electric Power	5,480	2,651	5,855	5,930	4,486
40	Physical Culture ..	11,020	8,025	10,920	10,460	10,750
41	Hostels and lodges ...	9,800	3,903	9,310	8,660	9,556
42	College Scout Corps ..	3,225	348	3,130	2,600	2,422
43	Gas and Gas-House charges ...	12,350	4,519	12,400	13,350	3,976
44	Laboratory charges ..	14,550	4,359	14,650	14,950	13,815
45	Practical Training ..	5,000	2,183	4,850	640	5,007
46	Preparation of the Chalukyan Monograph.	1,800	605	1,800	...	1,637
	Total ...	12,09,914	4,75,088	12,57,214	12,31,925	11,74,265
47	Fresh Grants	33,029	...	18,000	45,128	..
48	Debt Heads	...	...	...	..	991
49	Closing Balance	10,450	3,46,399	72,568	10,000	1,52,382
	Grand Total ...	12,53,393	8,21,487	13,47,782	12,87,053	13,27,638

APPENDIX B.

Detailed courses of study, etc., for the examinations for the Master's degrees under the new rules.

NOTE.—1. The examination in each case includes a *viva voce*.
2. According to clause 4 of the revised Ordinance 61 (vide University Notification No. 242, dated 4th July 1932), a dissertation may be offered in place of the two optional papers in consultation with the College authorities.

I. ENGLISH.

Compulsory: Paper I: Special Period. Poetry
" II: Special Period. Prose.
Optional: " III: Special Author. General
" IV: Special Author. Prescribed texts.

There should be a general study of the special period and particular reference to particular texts, but no annotation work.

The list of special authors may be: Spenser, Milton, Wordsworth, Shelley.

In the study of the Special Author, there should be a comprehensive study of his life and English works, and a detailed verbal study (involving annotation questions) of certain prescribed works.

II. KANNADA.

Compulsory: Paper I: Kannada Literature—Study of a selected writer or a special period.
" II: Kannada Poetics and Prosody, with a comparative study of Sanskrit and other Dravidian systems.
Optional: " III. Kannada Grammar and History of Kannada Language with comparative Dravidian Philology.
" IV: Cultural and Historical Studies with special reference to the Karanataka History and Culture.
A general knowledge of Social and Political History; History of Religions, *viz.*, Vedism, Buddhism, Jainism, Vaishnavism and Saivism; Architecture; Sculpture; and Iconography; Palaeography and Numismatics.
The dissertation, if offered, should be on a subject connected with Kannada Language, Literature, History or Culture.

III. SANSKRIT.

Compulsory: Paper I: Veda: Detailed study of prescribed books representing the various stages of the Vedic Literature.
" II: Veda: A critical enquiry into the growth and value of the Vedic Literature in general (including the Vedangas).

Optional: *One* of the following groups:—2 papers. Darsana, Vyakarana, Alankara, Philology, Pali and Prakrit.

Darsana: Paper III -A detailed study of prescribed books relating to one of the Darsanas.
" IV—A critical enquiry into the growth and value of Darsana Literature in general.

Vyakarana: " III—Detailed study of the prescribed books relating to Vyakarana Sastra.
" IV—A critical enquiry into the growth and value of Vyakarana Literature.

Alankara " III—Detailed study of prescribed books, relating to Alankara Sastra
" IV—A critical enquiry into the growth and value of Alankara Literature.

Philology: " III—History of Sanskrit Language.
" IV—Elements of Indo-German Philology.

Pali and *Prakrit* to be specified.

IV. ARABIC.

1. *Compulsory*: Papers I and II: Critical study of Arabic Literature.

Any *two* of the following:—

2. *Optional*: Papers III and IV.
   1. Semetic Philology.
   2. Islamic Philosophy and Thought.
   3. Muslim Law and Jurisprudence.
   4. History of Development of Quasidas in Arabic.
   5. Historical and Biographical Literature in Arabic.

V. PERSIAN.

Compulsory: Papers I and II } Critical study of Persian Literature in Ancient and Old Persian.

Optional: Papers III and IV: Any *two* of the following (one paper in each):—

1. Indo-Iranian Philology.
2. The Critical study of Sufistic Mysticism.
3. The Development of Persian Odes and Mathnawi.
4. The Historical and Biographical Literature.
5. The Development of Persian literature in India from 1200 to 1700 A.D.

VI. AVESTAN.

Compulsory: Papers I and II } Critical study of the Avestan Literature.

Optional: Papers III and IV: Any *two* of the following (one paper in each):

1. Indo-Iranian Philology.
2. The comparative study of Vedic and Gothic Literature.
3. The History of the rise and fall of Zorastrianism in Persia.
4. The Critical study of Pahlavi Literature.

VII. HISTORY.

Compulsory: Papers I and II } On the researches in Indian History made since the beginning of the present century.

Dissertation: On a subject connected with Indian History and Archæology.

VIII. ECONOMICS.

Compulsory: Paper I: Recent Developments in Economic Theory.
" II: Recent Developments in applied Economics.

Optional: Papers III and IV } Two special subjects (one paper in each).

IX. PHILOSOPHY AND PSYCHOLOGY.

Paper I: On recent developments in Philosophy, Sociology or Psychology.
" II: On the special topic chosen by the candidate for dissertation.

Dissertation: Embodying the results of original investigation, and an ordered critical summary of the previous works on the subject.

X. MATHEMATICS I (M. Sc.)

Compulsory: Paper I—Analysis.
" II—Geometries.

Optional: " III, " IV } Any *two* of the following (one paper in each):—

i. Theory of Functions of a Complex Variable.
ii. Projective Geometry.
iii. Non-Euclidean Geometry.
iv. Linear Differential Equations.
v. Elliptic Functions
vi. Theory of Numbers.
vii. Theory of Functions of a Real Variable.
viii. Theory of Integral Equations.
ix. Differential Geometry.
x. Astronomy and Astrophysics.
xi. Electro-Magnetic Theory.
xii. Relativity.
xiii. Radiation including the Quantum Theory.
xiv. Advanced Dynamics.
xv. Hydro-Mechanics.
xvi. Kinetic Theory of Gases.
xvii. Celestial Mechanics.
xviii. Attractions and Potentials.
xix. Heat conduction and Thermo-Dynamics.
xx. Theory of Elasticity.

MATHEMATICS: II (M.A.)

Compulsory: Paper I—Analysis.
" II—Theoretical Statistics.

Optional: Paper III } Any *two* of the following (one paper in each) :—
" IV }

i. Theory of Functions of a Complex Variable.
ii. Projective Geometry.
iii. Non-Euclidean Geometry.
iv. Linear Differential Equations.
v. Elliptic Functions.
vi. Theory of Numbers.
vii. Theory of Functions of a Real Variable.
viii. Theory of Integral Equations.
ix. Differential Geometry.
x. Actuarial Science—Problems of Graduation.
xi. Actuarial Science—Problems of Valuation.
xii. Bio-Metrics.
xiii. Mathematical Economics.

Note :—The list of optional subjects is provisional.

XI. PHYSICS.

Compulsory. Papers I and II } On Modern Physics *

* The following is the scope of the examination :—

Syllabus: The Electron Theory, Thermionics, Quantum Theory, Critical Potentials of Atoms and Molecules, Photo-electricity, X-Rays and Y-Rays, Optical Spectra, Cathode Rays, Positive Rays. Radio-active Transformations, Constitution of Atoms, Gaseous Ions, Theory of Electric Arc, Electric discharge in Gases, Electro-magnetic Oscillations and waves.

Optional: Papers III and IV } Any *one* of the following with 2 papers in each :—

i. X-Rays.
ii. Quantum Theory.
iii. Relativity.
iv. Wireless.
v. Spectroscopy.
vi. Wave Mechanics
vii. Radio-activity.

XII. CHEMISTRY.

Paper I. General Chemistry (Inorganic, Physical and Organic.)
" II. Inorganic Chemistry.
" III. Physical Chemistry.
" IV. Organic Chemistry.

Candidates who offer a dissertation will have to take the first paper and *one* of the other three.

XIII. BOTANY.

Compulsory: Papers I and II: On recent advances in Botany as could be gathered by a study of the following journals from 1920 :—

1. Annals of Botany.
2. New Phytologist.
3. Botanical Gazette.
4. American Journal of Botany.
5. Journal of the Indian Botanical Society.
6. Memoirs of the Department of Agriculture.

Optional: Papers III and IV } Any *two* of the following subjects (one paper in each) :—

1. Special morphology of Angiosperms.
2. " Gymnosperms.
3. " Pteridophytes.
4. " Bryophytes.
5. " Algaœ.
6. " Fungi.
7. Ecological Anatomy.
8. Anatomy, Morphology and distribution of Lichens.
9. Special Cytology.

XIV. GEOLOGY.

Compulsory: Papers I and II: On recent advances in Geology.

Optional: ,, III and IV: Any *one* of the following:—

1. Petrology.
2. Mineralogy and Crystallography.
3. Stratigraphy and Paleontology.

XV. ZOOLOGY.

Compulsory: Two papers (Paper I and Paper II) on a syllabus covered by the following:—

1. Cytology—W. E. Agar.
2. Cell in Development and Inheritance—E. B. Wilson.
3. Text-book of Embryology—E. W. McBride.
4. Text-book of Embryology—J. W. Jenkinson.
5. Text-book of Embryology—Graham Kerr.
6. Structure and Development of Vertebrates from the developmental standpoint—E. S. Goodrich.
7. Orders of Mammals—W. K. Gregory.

Optional: Two papers (Papers III and IV) on any *one* of the following groups and of the literature bearing on the subject of study not earlier than 1922:—

1. Land Planarians.
2. Fresh water Crustacea.
3. Scorpionida.
4. Land and Fresh water Mollusca of Mysore (S. India).
5. Hirudinea.
6. Oligochaeta of Mysore (S. India).
7. Fresh water fishes of Mysore (S. India).
8. Amphibia of Mysore (S. India).
9. Reptiles of Mysore (S. India).
10. Mammalian Embryology.
11. Comparative Anatomy of Domesticated animals.

In respect of the compulsory papers, the candidates are required to submit a set of slides illustrative of not less than six stages of the developmental features of any vertebrate and the cytology of the glandular and germinal cells. They should produce notes giving a description of slides studied by them.

In respect of the optional papers, the candidates of any year shall offer only *one* of the groups. They are required to present their collection of material and evidence of the study of the forms collected.

APPENDIX C.

(i) Proposals of the Boards of Studies regarding revision of the courses of study for the Intermediate Examination.

1. ENGLISH.

Resolved that there should be 3 papers in the Intermediate Examination in English namely:—

(1) Drama and Poetry.
(2) Prose—Detailed and Non-detailed.
(3) General English.

2. KANNADA

First proposal.—(1) Kannada as Selected Language may be dropped. (2) Kannada, I.A. and I.Sc., may be made identical.

Second proposal.—Further resolved that a question paper may be saved in the Intermediate Examination by re-arranging the scheme as follows (the one paper for I.Sc. being one of the papers for I.A.):—

Inter. Arts.—(i) Composition on prescribed texts for non-detailed study (common to I.Sc.)
(ii) Texts for detailed study and grammar.

3. TAMIL.

No modification is necessary in the course of studies for the Intermediate Examination in respect of the Tamil Language.

4. TELUGU.

In the Calendar for 1930-31, Vol. I.—

Page 131, *line* 1, *for* "Telugu Language" *read* "prescribed text-books and grammar."

Page 131, *line 7, for* "one" *read* "a"; *between* "selection" and "from," *insert* "or selections"; at the end of the line, *add* "200 verses."

Page 131, *line 8, for* "one" *read* "a"; *between* "selection" and "from," *insert* "or selections"; *between* "poets" and "or," *insert* "150 verses."

Page 131, *line 9, for* "one" *read* "a"; at the end of the line, *add* "about 300 pages, on which the Composition paper should be based."

Page 131, *line 12*, at the end of the line, *add* "in the Composition paper, besides an essay set from the prose work or works prescribed, there shall also be set an essay on some general subject."

Page 146, *line 22*, at the end of the para, *add* "the text-books prescribed shall, as far as possible, be the same as for the Second Language, Telugu, for the Intermediate Examination in Arts, the quantity being however less than for that examination."

5. SANSKRIT.

No modification is necessary in the course of studies for the Intermediate Examination in Sanskrit.

6. URDU AND PERSIAN.

The Board do not consider that any modification is necessary in the course of studies for the Intermediate Examination in respect of the subjects dealt by the Board.

7. FRENCH.

There is no modification to be suggested in the course of studies in French for the Intermediate

8. HISTORY.

Resolved that the Intermediate course be finally arranged as follows:—

Group I—(i) History of Greece down to the death of Alexander the Great.
(ii) History of Rome down to the death of Augustus.

Group II—(i) History of India down to about 1,300 A.D.
(ii) History of Great Britain and Ireland after about 1,500 A.D.

9. LOGIC.

Resolved that in the scheme for the Intermediate in Arts (page 106 of the Mysore University Calendar for 1930-31. Vol. I.) the words "including Elementary Psychology of Reasoning Processes" *after* "Logic" be *omitted.*

Resolved further that, in lieu of the syllabus in Logic (pages 134-35) 'Welton's Groundwork of Logic' be prescribed as the text-book.

10. MATHEMATICS.

(i) The Board is of opinion that at the Intermediate stage, a "*uniform*" *course* in *Mathematics* is desirable for Arts and Science students irrespective of the choice of groups in the graduate courses of the University and accordingly recommend a *uniform two-paper* course in Mathematics for all those who select Mathematics as an Optional subject, either under Arts or Science.

(ii) The Board is *emphatically* of opinion that the Intermediate Examination should serve as a "passport" to the graduate courses of *all* Indian Universities; and that every attempt should be made to recast the Intermediate courses on an "*all-India*" basis with the co-operation of the Inter-University Board, so as to facilitate admissions to the graduate courses without restriction.

N.B.—The Mysore University has recognised the importance of "Mathematics" as a subject of study for all Inter. Science students, and has accordingly prescribed a "*Compulsory course in Mathematics*" for the Inter. Science Examination. If resolution (1) above is accepted, in place of the present Compulsory Mathematics, the Board recommends a "*specially designed course in Mathematics*" for "*non-Mathematics*" Inter. Science candidates.

11. PHYSICS.

The Board considers that "Electrolysis and Faraday's Laws of Electrolysis" have to be introduced into the syllabus.

12. CHEMISTRY.

(i) The syllabus in *Chemistry for the Intermediate Examination was revised. (Revised syllabus appended.)

(ii) *Resolved* that the syllabus in Chemistry for the Intermediate Examination revised as above be further modified as follows:—

(*a*) *Delete* the elementary course in Organic Chemistry.

(*b*) Under carbon, *add* "methane, ethane and acetylene" *before* "carbon monoxide and dioxide".

(*c*) Under metals, *insert* "preparation" *after* "Chief sources".

(*d*) Under metals, *insert* "arsenic, chromium, manganese," *after* 'lead'.

13. NATURAL SCIENCE.

It is not necessary to change the present syllabus.

14. MEDICINE.

No change is called for in respect of the Intermediate course so long as the special courses for Medicine and Engineering continue.

15. ENGINEERING.

The majority of the members of the Board are of opinion that the course of studies for the Intermediate Examination may remain the same for all the subjects as in the General I.Sc. course except in the case of Mathematics in which Compulsory Mathematics might be abolished and the syllabus under this head might be included under that for Additional Mathematics and the number of question papers to be set be two.

*REVISED SYLLABUS IN CHEMISTRY.

The subject is to be studied in the order indicated below:—

Air, Boyle's Law, Charles' Law.

Hydrogen, oxygen, water. Laws of chemical combination. Gay Lussac's Law of combining volumes.

Atoms and Molecules. Avogadro's hypothesis.

Symbols and formulæ, valency, radicles. Chemical equations and calculations.

Hydrogen peroxide and ozone.

Halogens and their hydracids. Electrolysis, sodium hypochlorite, pottassium chlorite.

Elementary knowledge of oxidation and reduction.

Sulphur.—Rhombic and monoclinic varieties. Effect of heat on sulphur, sulphuretted hydrogen, sulphur dioxide, sulphur trioxide, sulphuryl chloride, sulphurous and sulphuric acids, sodium thiosulphate.

Solubility of solids and gases in water. Solubility curves. Henry's Law of gas solubility.

Nitrogen, magnesium nitride, amonia, oxides of nitrogen, nitrosyle chloride, nitrous and nitric acids.

Endothermic and exothermic compounds. Thermal dissociation. Reversible reactions.

Phosphorus.—Red and white varieties, phosphine, oxides of phosphorus, chlorides of phosphorus, phosphorus oxy-chloride, phosphorus and phosphric acids, structural formulæ.

Neutralisation. Equivalent weight of acids, bases and salts. Normal solutions. Acid, basic and normal salts. Water of crystallization.

Boron.—Boric acid, borax.

Silicon.—Silica, silicon tetrafluoride, sodium silicate, glass.

Carbon.—Allotropy, elementary knowledge of the distillation of wood and coal, carbon monoxide and dioxide, carbon di-sulphide, carbon tetrachloride, calcium carbide, cyanogen, hydrocyanic acid, pottassium cyanide, ferrocyanide and ferricynide. Double salts and complex salts.

ELEMENTARY COURSE IN ORGANIC CHEMISTRY.

Mathane and ethane.
Ethylene and acetylene.
Ethyl iodide, chloroform and iodoform.
Methyl alchohol and ethyl alchohol.
Ether, formaldehyde, acetaldehyde and acetone.
Formic acid, acetic acid and ethyl acetate.
Oxalic, succinic, tartaric, citric and latric acids.
Oils and soaps, glycerol.
Cane sugar, glucose and fructose.
Acetonitrile, methylamine and urea.
Benzene and napthalene.

Cumbustion, elements of gas analysis.

General methods of determining equivalent weights, atomic weights and molecular weights.

Chief sources, properties and uses of the following metals :—

Sodium, potassium, copper, silver, gold, magnesium, calcium, strontium, barium, zinc, mercury, aluminium, tin, lead and iron.

The preparation and properties of the more important compounds of the above metals.

Elementary knowlege of the periodic classification of elements.

Students are expected to have a knowlege of the process of manufacture of the following :—

Hydrochloric, nitric and sulphuric acids. Aluminium, gold, iron, lead, zinc. Sodium hydroxide, Sodium corbonate.

PRACTICAL.

Note.—The course in practical work should closely follow the study of the theoretical portions in the lecture classes.

Cutting, bending and drawing out glass tubing.

Preparation and study of the properties of hydrogen, oxygen, chlorine, hydrogen chloride, ammonia, nitrous and nitric oxides, nitric acid, sulphur dioxide, boric acid, alum, and ferrous ammonium sulphate. Composition by volume of air, ammonia and sulphur dioxide.

Density of corbon dioxide.

Solubility of solids in water. Solubility curves.

Equivalent weight of a metal (magnesium, iron, lead or aluminium).

Acidimetry and alkalimetry—estimation of acids, sodium hydroxide, sodium carbonate.

Simple exercises on the use of permanganate, thiosulphate and iodine standard solutions. Volumetric analysis.

Qualitative analysis of simple salts.

(ii) Opinions of the Faculties.

(a) *Faculty of Arts* (17-2-33).

Item 1. ENGLISH :

Resolved that there should be three papers in the Intermediate Examination in English, as follows :—

1. Drama and Poetry, 3 hours—70 marks.
2. Prose—detailed and non-detailed—70 marks.
3. General English—60 marks.

Item 2. KANNADA ;

Resolved that one of the papers be common to I.A. and I.Sc., the scheme of examination being as follows :—

1. Composition on prescribed texts for non-detailed study (common to I.A. and I.Sc.)
2. Texts for detailed study and grammar (only for I.A.)

Items 3—7. TAMIL, TELUGU, SANSKRIT, URDU & PERSIAN & FRENCH.

Resolved, further, that the scheme for Kannada be adopted for all the Second Languages, with the substitution of Translation for Composition and questions on common texts in the case of Classical Languages, *viz.*, Sanskrit and Persian, in the common paper (No. 1) (An amendment to omit the Classical Languages was lost).

Item 8. HISTORY :

Resolved that a single course in outlines of world history—2 papers—be recommended, in place of the present 2 groups.

(An amendment to have instead of the groups recommended by the Board, the following groups :—

Group I	History of Greece and of Rome ...	... 1 paper
	British History after 1485 ..	.. 1 ,,
Group II	History of India down to about 1300	... 1 ,,
	History of India from 1300 to the present day	... 1 ,,

was lost).

Item 9. LOGIC :

Resolved that the recommendations of the Board be accepted.

Item 10. MATHEMATICS :

In view of the further reference made by the University Council to the Faculty of Science, *resolved* that this question be taken up at the joint meeting.

(b) *Faculty of Science* (29*th October* 1932).

(a) ENGLISH :

Resolved that the proposal of the Board be accepted with the proviso that the three papers shall be of two hours duration each and shall carry respectively 70, 70 and 60 marks.

(*b*) SECOND LANGUAGE:
Resolved that in the case of all Second Languages the paper on text and composition for the I. Sc. should be the same as one of the papers for I. A.

(*c*) MATHEMATICS:
Resolved that the proposal of the Board of Studies in Mathematics to have the two papers in Mathematics (Optional subjects) identically the same for the I. A. and the I. Sc. be accepted, and that a separate paper on Elementary Mathematics be set for I. Sc. candidates who do not choose Mathematics as an Optional subject.

(*d*) PHYSICS:
Resolved that the proposal of the Board be accepted.

(*e*) CHEMISTRY:
Resolved that the proposal of the Board be accepted.

(*f*) NATURAL SCIENCE:
Resolved that the opinion of the Board that no revision is required in the course, be recorded.

(*c*) *Faculty of Science* (17*th February* 1933).

3. That an additional paper in Mathematics in the place of Compulsory Mathematics be set to the candidates who have selected Mathematics as an optional subject in the I. Sc. Examination. This is in addition to the previous resolution of the Faculty of Science.

(*d*) *Joint meeting of the Faculties of Arts and Science* (17*th February* 1933).

Item 1. *Resolution* of the Faculty of Arts accepted.
Item 2. } Do. do.
,, 3-7 } Do. do. (amendment to omit classical languages was lost)

Item 8. HISTORY:
Resolved that the following two groups be adopted.
Group I—1. History of Greece and of Rome.
2. British History after 1485.
Group II—1. History of India down to 1300.
2. Do after 1300.
(The resolution of the Faculty of Arts, *viz.*, a single course of World History—2 papers, was lost.)

Item 9. *Resolution* of the Faculty of Arts accepted.

Item 10. MATHEMATICS:
Resolved that the previous recommendation of the Faculty of Science to the University Council, and the further recommendation reported to the meeting as the resolution on the reference of the University Council adopted that morning, be accepted (see appended note by the Dean of the Faculty of Science).*
(An amendment to have a paper on Natural Science in place of the second resolution as appended, was lost.)

* Vide Resolution 3 of the Science Faculty. dated the 17th February 1933.

Items 11, 12, & 13. PHYSICS, CHEMISTRY, NATURAL SCIENCE:
The *resolutions* of the Faculty of Science were accepted.

APPENDIX D.

ORDINANCE 61 AS AMENDED BY PROPOSITION E.

Master's Degree.

1. *Course*:— A candidate for the Degree of Master of Arts shall be examined in one of the following subjects:—

English		History
Kannada		Economics
Sanskrit }	(A Classical Language.)	Philosophy
Persian }		Mathematics

2. A candidate for the Degree of Master of Science shall be examined in one of the following subjects:—

Mathematics	Zoology
Physics	Geology
Chemistry	Psychology
Botany	Economics

3. *Admission*: A graduate of this University with Honours shall pursue a course of studies in his Major subject for one academical year from the date of his passing the Bachelor's degree examination, at the end of which he will be permitted to present himself for the Master's degree examination in that subject.

A Bachelor of Arts or Science (Pass) of this University shall pursue a course of study for a period not less than three years subsequent to his passing the Pass Degree Examination, in one of the subjects taken by him for the Pass Degree at the end of which he will be permitted to appear for the Master's Degree Examination in that subject, provided he shall have passed as a qualifying test the Final Examination for the Honours Degree in that subject, such test being taken not earlier than two years after passing the Pass Degree Examination.

4. The examination for the Degree of Master of Arts shall consist of four papers and a *viva voce* examination, or a thesis and a *viva voce* examination; and the examination for the Degree of Master of Science shall consist of four papers and a *viva voce* examination, or two papers, a thesis and a *viva voce* examination. In the conduct of the examination for the Master's Degree, at least one external examiner shall be associated with the Professors of the subject in the University.

The written papers and the *viva voce* shall carry a maximum of 100 marks each and the thesis shall carry a maximum of 400 marks in the case of the examination for the Master's Degree in Arts and 200 marks in the case of the examination for the Master's Degree in Science.

The minimum for a pass in the Master's Degree examination shall be 50 per cent of the aggregate marks in the subject.

5. *Transitional Rules*: Bachelors of Science of this University under the old rules shall be eligible to appear for the M. Sc. Degree Examination in their Main subject provided they shall produce a certificate of having satisfactorily worked under proper guidance in a recognised laboratory for not less than two years after passing the B. Sc. Degree Examination.

APPENDIX E.

SCHEME OF EXAMINATION FOR THE B. E. DEGREE.

FIRST EXAMINATION IN ENGINEERING.

Serial No.	Subjects	No. of papers	Hours for each paper	Marks for written examn.	Oral and Practical	Marks for records of class work	Total
	Group I						
1	Mathematics I—Algebra, Trigonometry and Mensuration ...	1	3	75	...	40	...
2	Mathematics II—Analytical Geometry and Calculus ...	1	3	75	...		..
	Total ...	...	...	150	...	40	190
	Group II						
3	Engineering Physics ..	1	2	60	30	30	120
4	Engineering Chemistry ..	1	2	60	30	30	120
5	Economics ...	1	2	50	...	10	60
	Total ...	...	..	170	60	70	300
	Group III						
6	Building Materials and Construction	1	3	150	..	30	180
7	Elementary Mechanical Engineering, Workshop Theory and Metallurgy	1	3	150	...	30	180
8	Free-hand, Model and Geometrical Drawing ...	1	4	150	...	100	250
9	Surveying—Theory ...	1	3	150	...	.	150
	Practice ..	...	...	...	100	75	175
10	Workshop Practice ...	...	...	...	100	75	175
	Total ...	...	...	600	200	310	1,110
	Grand Total ..	...	...	920	260	420	1,600

V. GOPALASWAMI AIENGAR,
Registrar.